**Video Processor User Manual**

# VSP 1121

**The pictures and data in the user manual are reference only, any modification please check with real device!**

# Revision

| Format | Time | ECO# | Description | Principal |
|---|---|---|---|---|
| 1.0 | 2012-01-31 | 0000 | Release | |
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# 1.0 Safety

The general safety information in this summary is for operating person. Any requirement, please feel freely to contact our service engineer.

| | |
|---|---|
| | **Power Source**<br>This product is intended to operate from a power source between 85~265 volts rms . This product is only workable under correct power condition, which is already mark on the back panel of the power. |
| | **High Voltage**<br>There are many high voltage components inside. |
| | **Do not Remove Covers and Panels**<br>Do not remove Covers in any conditions. There are not any spare components inside for maintenance, so do not maintain this product by userrselves, any requirement, please feel free to contact our service engineer. Keep heavy device from power cord. |
| | **Grounding the Product and Use the Proper Fuse**<br>This product is grounded through the grounding conductor of the power cord. To Avoid electrical shock, plug the power cord into a properly wired receptacle before connecting to the product input or output terminals. |
| | **Keep away from Magnet, Motor, TV and Transformer.** |
| | **Guard Against Damp**<br>Keep using inside clean and dryness environment, once the device get wet, must remove power cord right now. |
| | **Keep away Exploder**<br>Do not operate the device inside dangerous and easy explosive gas, which it may make fire, blast or something without expectation. |
| | **Keep away Pour Liquid and Fragment**<br>It is forbid to pour liquid, metal fragment or anything else inside this device to avoid fire and other accident. Once that happens, must remove power cord and try to make it clean before power on again. |

# 2.0 Specification

VSP 1121 is designed as a middle-end seamless video processor, which accepts a wide variety of computer and HDTV video signals, including 4 Composite (CVBS ), 2 VGA( YPbPr Compatible) input, 2 DVI(HDMI1.3 Compatible ), 1 DVI3(Only for background input ). It combines truly seamless, glitch-free switching with advanced scaling technologies to meet the requirements of high quality, high resolution video presentations. It has been designed for presentation-enhancing features such as fade-in fade-out and wipe transition effect, multiple output formats, adjustable size and position of picture,multiple preset modes, PIP modes, multiple control methods, image over background effect, which make VSP 1121 the ideal seamless switcher to deliver advanced capabilities to high-end presentation environments.

## Features:

## Processing:

- True Seamless switching
- High quality scaling technology
- 10-bit sampling and internal processing/scaling
- Short video delay

**Multiple inputs**

- VSP 1121 provides 4x Composite(CVBS) ,2XVGA( Compatible with YPbPr), and 2xDVI (compatible with HDMI 1.3)

**Multiple outputs:**

- 1 x VGA output is provided for connectiong to a VGA-based monitor, using for preview.
- 2 X DVI outputs are provided for spliting into two different pictures or distributing the same two pictures, the two DVI outputs can be connected with LED display or other display.

## Programmable Operation

- VSP 112 includes of two channel inputs, the first channel can be selected from Mix CV1, CV2, VGA1, DVI 1; the second channel can be selected from Mix CV3, CV4, VGA2, DVI2; That's to say, the channel are programmable, while users can also preview the output via VGA monitor.

## Multiple Control Methods

Front Panel, RS232、USB, Etherent

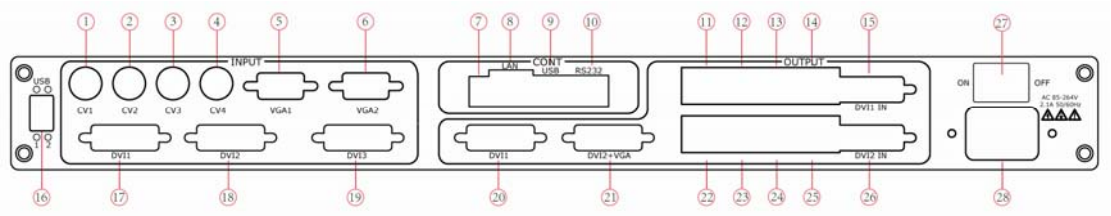
# 3.0 Parameters

| | |
|---|---|
| **CVBS Input** | |
| Number of Inputs | 4 |
| Connector | Standard BNC Socket |
| Supported Standards | PAL/NTSC |
| Signal Level | 1Vpp±3db (0.7V Video+0.3v Sync ) 75 ohm |
| Multiplex | 480i,576i |
| **VGA Input** | |
| Number of Inputs | 2 |
| Connector | Standard DB9 Socket |
| Standards | VGA-UXGA |
| Signal Level | R、G、B、Hsync、Vsync:0 to1Vpp±3dB (0.7V Video+0.3v Sync ) 75 ohm<br>black level：300mV Sync-tip：0V |
| Supported Resolution | VGA-UXGA (800*600@60, 1024*768@60, 1280*1024@60,<br>1440*900@60,1600*1200@60) |
| **YPbPr Input** | |
| Number of Inputs | 2 |
| Connector | Standard DB9 Socket |
| Standards | Analog HD Input |
| Signal Level | Y:1Vpp±3dB (0.7V Video+0.3v Sync ) 75 ohm<br>Pb/Pr:0.7Vpp±3dB 75 ohm |
| Supported Resolution | 480i,576i,480p,576p,720p50,720p60,1080i50,1080p50<br>1080i60,1080p60 |
| **DVI Input** | |
| Number of Inputs | 2 |
| Connector | Standard DVI-I socket |
| Standards | SMPTE：625/25/50 PAL, 525/29.97/59.94 NTSC,<br>1080P50,1080P59.94/60,1080i50,1080i59.94/60,<br>720p50,720p59.94/60<br>VESA：800×600×60Hz，1024×768×60Hz，1280×768×60Hz，<br>1280×1024×60Hz，1600×1200×60Hz，1920×1080×60Hz |
| Signal Level | TMDS pwl,single pixel input,165MHz bandwidth |
| Standards | HDMI 1.3 |
| **Background Input** | |
| Number of Inputs | 1 |
| Connector | Standard DVI-I socket |
| Supported Input | VESA：800×600×60Hz，1024×768×60Hz，1280×768 |

| | |
|---|---|
| Resolution | ×60Hz，<br>1280×1024×60Hz，1600×1200×60Hz，1920×1080×60Hz |
| Signal Level | TMDS pwl, single pixel input,165MHz bandwidth |
| Standard | DVI 1.0 |
| **USB Input** | |
| Number of Inputs | 2 |
| Connector | Standard USB connector |
| Format Supported | Picture：JPGE,BMP,PGN<br>Video：MPEG2,MPEG3, MPEG4,H264, RM,RMVB,MOV,<br>MJPEG, VC1,DivX,FLV |
| **VGA Output** | |
| Number of Inputs | 1 |
| Connector | Standard DVI-I socket |
| Supported Output Resolution | VESA ： 800×600×60Hz ， 1024×768×60Hz ，1024×768×75Hz ，1280×768×60Hz，1280×1024×60Hz，1440×900×60Hz，1400×1200×60Hz，1600×1200×60Hz，1920×1080×60Hz |
| Signal Level | R、G、B、Hsync、Vsync:0 to1Vpp±3dB (0.7V Video+0.3v Sync ) 75 ohm<br>black level：300mV Sync-tip：0V |
| **DVI Output** | |
| Number of Output | 2 |
| Connector | Standard DVI-I socket |
| Signal Level | TMDS pwl, single pixel input,165MHz bandwidth |
| Supported Output Resolution | VESA: 800×600×60Hz ， 1024×768×60Hz ，1024×768×75Hz ，1280×768×60Hz，1280×1024×60Hz，1440×900×60Hz，1400×1200×60Hz，1600×1200×60Hz，1920×1080×60Hz |
| **Function** | |
| Input channel configuration | support each input channel signal programming configuration |
| PIP | Support PIP、PBP for any two inputs |
| Transition effects | Fade in and fade out switching between any two inputs |
| **Extras** | |
| Communication | RS232 USB TCP/IP |
| Power Supply | 85-264V 2.1A IEC-3 |
| Working Environment | 0°C~45°C |
| Stored Environment | 10% to 90% |
| Product Warranty | 1year |

# 4.0 Connection

## 4.1 VSP 1121 Back Panel




1～4、Composite Video inputs, support audio signals from DVD player , Set-top box , HD player sources via the BNC connector of 75 ohm;

5/6、VGA input interface, DB-15, used to support Analog RGB input;

7、Dial switch;

8、10/100M interface (copper RJ45).

9、USB interface to control processor by AVDSP PC software

10、RS232 interface to control processor by AVDSP PC software,

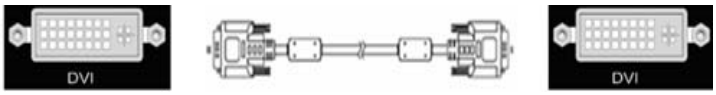
11/12/22/23、Gigabit copper port, connect to LED screen;

13/24、Gigabit Transmitter card power interface, not use inside case;

14/25、USB interface to control the sending card by LED studio or control software;

15/26、Gigabit Transmitter card DVI input，connect to DVI output of VSP 112.（This Connection does not support hot-plugging）;

17/18、DVI input interface (HDMI 1.3 Compatible). Input the video signal from computer, DVI signal generator, HD Player. Connect to the DVI 1 interface on VSP 112（This Connection does not support hot-plugging;




16、USB input interface, used to player media files from disk with USB connect or. Such as USB disk, Portable Hard Disk; Note：Can be also used for online update.

19、Back ground signal input（DVI）, can be connected with Laptop,computer video signal through DVI connector;（**Only accept standard computer graphic DVI signal**）

20、DVI output interface. Connect to the monitor or LED screen which has DVI interface. （This Connection does not support hot-plugging）

21、DVI output from DVI +VGA connector, can be connected with DVI-based Monitor or control system card for LED display. （This Connection does not support hot-plugging）.

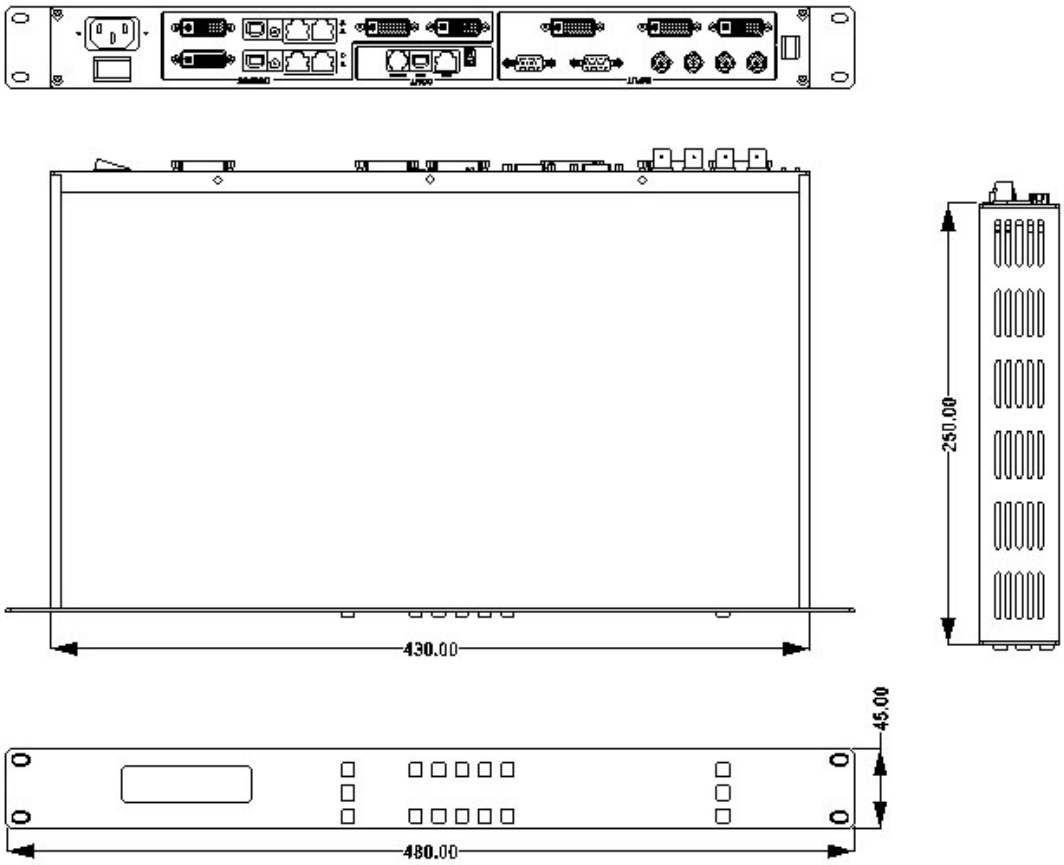
VGA output of DVI+VGA, used to connect to connect to the monitor, projector and so on;

| | |
|---|---|
| | 20. Through adapter , user can output both DVI and VGA output simultaneously.<br><br>Or through DVI-VGA adapter to output VGA format individually. |

27、Power switch button.

28、Switch and power. It must use IEC-3 power line. Always ground to avoid electric shock.

## 4.2 VSP 1121 Size and installation

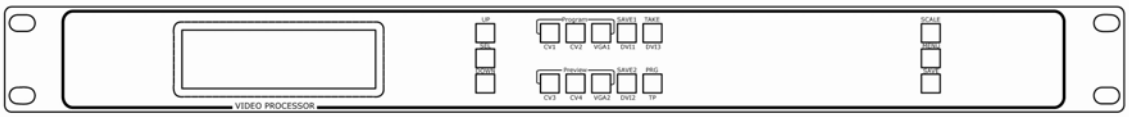


# 5.0 Front Panel Keyboard Operation

Insert power cord and push power button to ON position. LCD module on the front panel will show Video Processor and go into self verification before it load the last setting config and send the processed image to the target display or device. For the first running, CV1 input is the default input source. With the front panel operation, users can operate the equipment with buttons and menu displayed on LCD module.

## 5.1 VSP 1121 Series Operator Guideline

VSP 1121 front panel as following:




**1、LCD panel**,used to show button menu and menus for interactive communication.

**2、Menus:**

**SELECT:** Press **SELECT** to confirm the current choice item or value;

**UP:** push to select up items or increase current setting value;

**DOWN:** push to select down items or decrease current setting value;;

**3、Signals:**

**Program**

**1**：Program Button 1，Press the button, its LED light turns on，Program output will be swithced to this channel 1;

**2**：Program Button 2，Press the button, its LED light turns on，Program output will be swithced to this channel 2;

**3**：Background Button 3，Press the button, its LED light turns on，Program output will be swithced to this channel 3;

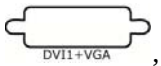
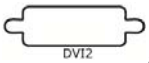
| | |
|---|---|
| | Button 1，Button 2，Button 3 are designed from left to right order. |

**Preview**

**1**：Preview Button 1，Press the button, its LED light turns on，Preview utput will be swithced to the Programe Channel 1;

**2**：Preview Button 2，Press the button, its LED light turns on，Preview utput will be swithced to the Programe Channel 2;

**3**：Preview Button 3，Press the button, its LED light turns on，Preview utput will be swithced to the Programe Channel 2;

| | |
|---|---|
| | Button 1，Button 2，Button 3 are designed from left to right order; Program guideline for Button 1, Button 2: Firstly: Press Preview Button 1or Button 2;Secondly，Press PRG buttoon; Thirdly, LCD panel will give message and ask users to select input source by pressing UP DOWN buttons. Press SEL to confirm; Fourthly, Press ESC to quit from program and finish.<br>Program out goes through the connector  , Preview output goes through the connector DVI2  , DVI+VGA output goes through cable , to output DVI and VGA video, or use adapter to output VGA video. |

**4、Function**

**TAKE:** seamless dissolving, press the button to to switch preview out to Program Output with dissovlving transition effect;

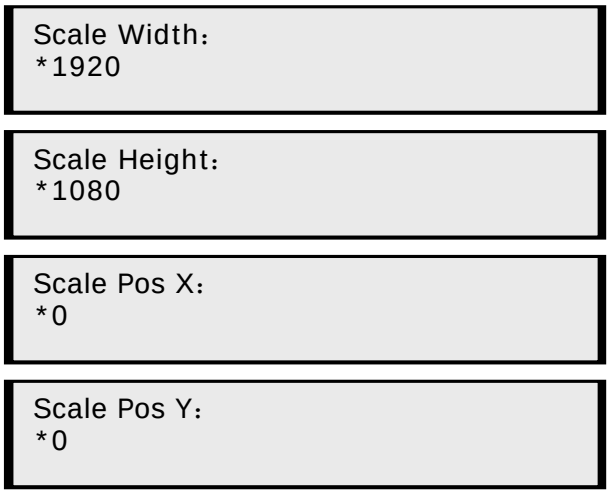
**PRG:** Program Button, press the button to program for Button 1 and Button2 and Button 3.

| | |
|---|---|
| | Program guideline for Button 1, Button 2, Button 3: Firstly: Press Preview Button 1or Button 2 or Button 3; Press PRG buttoon; Thirdly, LCD panel will give message and ask users to select input |

| | |
|---|---|
| | source by pressing UP DOWN buttons. Press SEL to confirm; Fourthly, Press ESC to quit from program and finish.<br>Button 1 can program for any input of CV1，CV2，DVI1，VGA1<br>Button 2 can Program for any input of CV3, CV4, DVI2, VGA2,<br>Button 3 can program for DV3, TP. |

**SCALE:** SCALE SIZE AND POSITION SETTING,Press the button and goes from Hsize→Vsize→HPOS→VPOS to set Size value and position value;

Push LEFT/RIGHT，and push UP/DOWN and SEL to confirm the relevant items;；




**MENU:** Advanced menu，Press the **MENU** to enter the main menu, the submenus: Device information, Factory Reset, Languageand Alpha setting are all included. Push the LEFT/RIGHT to select the relevant submenu.

**SAVE:** Saving Button, press the button, its light turns on, push the lighting button to save config to（SAVE1）or to（SAVE2）.

## 5.2 VSP 1121 Video Processor Menu

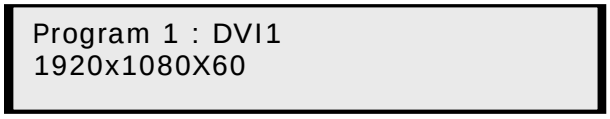
While VSP 1121 is initializing, the following messages will be displayed on the LCD panel.

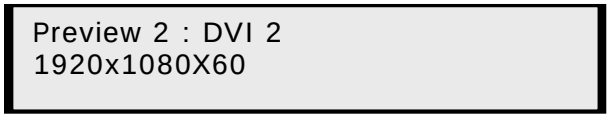
VSP 1121 can be connected via network cable to the LAN, but when the device is not connected to the network, there will be a prompt: DHCP Failed;
The device does not show DHCP Failed when you access the network: as following:

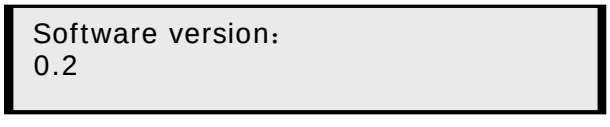
When connected with network successfully, it will get a IP automatically. Like menu as following

Press【MENU】button go to main menu，as followings:

The first line shown on LCD is VSP 1121. Select DEV Info (i.e.: Device Information and serial number) to show relevant information about current input. As following：





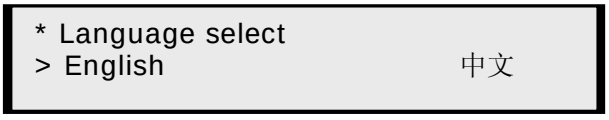
Push【MENU】to escape from the current menu and go back to the main menu，as following; Press 【DOWN】 and select **Reset** submenu. Press **SEL.**

After successful reset you will see the menu as follows:

Push【MENU】to go back to the main menu, and Press【DOWN】 to find **LANGUAGE.**

Submenu:

Press【SEL】select the relevant submenu. LANGUAGE submenu as follows:

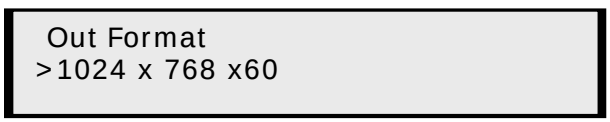



Press 【DOWN】 to select the LCD language.

Press 【MENU】to go back the main menu，Press 【DOWN】, select OUT menu;

Press【SEL】and enter the corresponding sub-menu settings;

Press【SEL】，go to Out Format as following:



| | |
|---|---|
| | VSP 1121 support 5 resolutions：1024 x 768 x60；1280 x 768 x60；<br>1280 x 1024 x60；1600 x 1200 x60；1920 x 1080 x60； |

Press【SEL】，select the output resolution you need；

Push 【MENU】to go back to the main menu，push 【DOWN】，select OUT（output connector setting）；

```
 OUT
Format                    >DE
```

```
 OUT DE
>Program                  Preview
```

Push 【SEL】，and enter the corresponding sub-menu to set DE switch；go to program sub-menu as shown：

```
 Program
>DE Setup                 HDMI/DVI
```

```
Program DE    ON/OFF
>ON
```

Press【ON】，and Press【SEL】to go to DE setting menu，Press【UP】or【DOWN】to change the value.

```
> Program DE H Start
*35
```

Or Press 【DOWN】，scroll down the menus，as following：

```
> Program DE H Start
> 35
```

```
> Program   DE V Start
> 35
```

```
> Program   DE Width
> 1920
```

```
> Program   DE Height
> 1080
```

DE H Start：horizontal axis setting；DE V Start：vertical axis setting；

DE Width: width setting; DE Height: height setting;

Likewise, above operation can also be applied for setting Preview DE ;

Push【MENU】button to go back to previous menu，push 【DOWN】, select HDMI/DVI output settings;

Press【 SEL 】, enter the HDMI/DVI settings for output signal; go to sub-menu HDMI/DVI as shown:

Likewise, above operation can also be applied for setting Preview output。

Press 【MENU】to return to the previous menu，Press 【UP】 or 【DOWN】, scroll the menus;

And find the menu (Time) and（Calendar）;

Press【SEL】to enter Time setting;

Press【SEL】 to activate the Time setting, if there is a * sign, means the menu item has been selected; press 【UP】and 【DOWN】 to revise the time.

Press 【MENU】to return to the previous menu，Press 【UP】 and 【DOWN】, find the Calendar as following;

Press【SEL】to enter Calendar setting; Date shows on the left side, Day shows on the right side.

```
Calendar
>2010/01/01                Sun
```

Press 【SEL】 to activate the Calendar setting, if there is a * sign, means the menu item has been selected，Press【UP】 or【DOWN】 to change the value；

```
Calendar
*2010/01/01                Sun
```

Press 【MENU】to return to the previous menu，scrolling the menu，find the Scale menu：

```
>VSP 1121
* Scale                    Advance
```

Press【SEL】to enter the Scale setting, Scale menu means the zoom menu, including the following settings:

Scale Width: Scale in horizontal.

```
Scale  Width CH2：
>1024
```

Scale  Height：Scale in vertical

```
Scale  Height CH2：
>768
```

Scale Pos X： Scale X position

```
Scale Pos X CH2：
>0
```

Scale Pos Y： Scale Y position

```
Scale Pos Y CH2：
>0
```

| | |
|---|---|
| | Scaling setting only effects for program ouput channel，while preview is always shown in fullscreen. Users can modify the scaling parameters so as to resize the image and position shown in LED display. |

Press 【MENU】, return to the main menu , scrolling to find Advance submenu;

Set values for screen parameter and aspect ratio.

Press 【SEL】, enter the advance menu, push 【DOWN】, to find Screen：

Screen width：set the horizontal size of the screen;

Screen height：set the vertical size of the screen;

Screen pos X：set the horizontal position of the screen;

Screen pos Y：set the vertical position of the screen;

User can set size and position of the screen simply, Mainly applies to LED screens users. After setting screen parameter， display picture can directly shows on corresponding screen.

Advance includes the ratio setting menu:

Normal ratios are 4：3 and 16：9， Press 【UP】and 【DOWN】to realize the convertion between the two types.

Preview -program swap is to switch between the main picture and subpicture.

Press 【MENU】, return to the main menu , press 【DOWN】 and find Picture submenu.

Press【SEL】, enter the Picture submenu, Picture quality can be revised by the following options:

Set Brightness：To change the brightness value of picture

Set Contrast：to change the contrast value of picture，

Set Saturation：To change the Saturation value of picture

Set Color Red ：To change the Red color value of picture;

Set Color Green：To change the Green color value of picture;

Set Color Blue：To change the Blue color value of picture;

Users can adjust the settings according to the actual situation， this function is mainly applied to the technician who is very professional at the image quality. However, if there is any improper operation and image quality errors or distortion occur, reset the device from main menu Recall.

Press 【MENU】, return to the main menu, press DOWN to set BG (Background).

Push SEL key，to configure BG, as following:

Background channel comes with TP test pattern picture and background input DVI3.

Press【MENU】, return to the main menu, press UP/ DOWN to set【AB Mode】transition effects;

【AB Mode】: full screen cut，full screen transparent switch，wipe，transparent

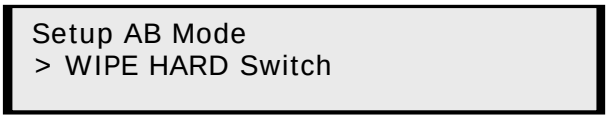
wipe.

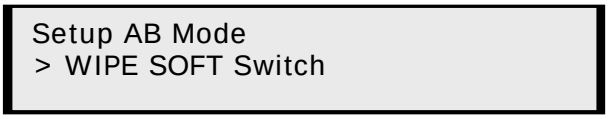
Wipe and transparent wipe both offer six ways of seamless switch transparent wipe along with soft effect.

Push 【 DOWN 】, make (AB Mode) menu selected: CUT Switch, non-transparent mode, wipe right,wipe down, wipe up, wipe square in/out,wipe center out, transparent DISSOVLE Switch mode.

Press 【SEL】to enter the fade switch to confirm the time setting; Press【UP】or【DOWN】to adjust the duration of dissolve effect, which ranges “0.5 s-30.0 s”.

Press 【SEL】to enter（WIPE HARD Switch） setting;




Press 【UP】 or【DOWN】, can check the multiple seamless transition effects:

Press 【MENU】, return to the main menu，Press【UP】 or【DOWN】, find PIP setting option；

Go into the PIP setting as following:

Press 【MENU】, return to the main menu, Press【DOWN】and set【Matrix】

Matrix is only for output signal. The DVI1 OUT can be set to be previewed or to be programed. The same operation can be applied for DVI2 OUT ,VGA OUT setting.

Push【MENU】, return to the main menu, Press【DOWN】and set【TP】for picture.

Push 【SEL】, the device will do the color change testing automatically, push to set time duration for change.

Push 【SEL】, test the color change manually, and set the RGB value.

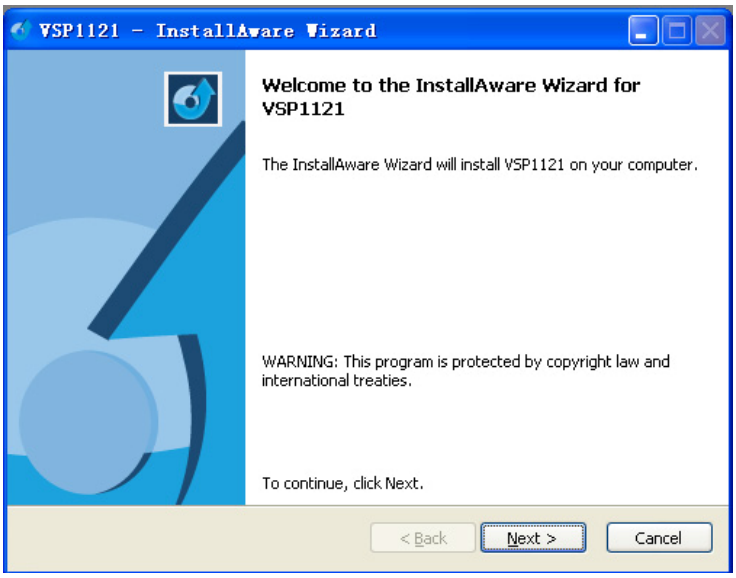
Six rolling test bars, 2 striped test pattern and 2 gray-scale images test pattern are offered to satisfy the test for gray and color of LED screen.

# 6.0 Communication Software Guideline

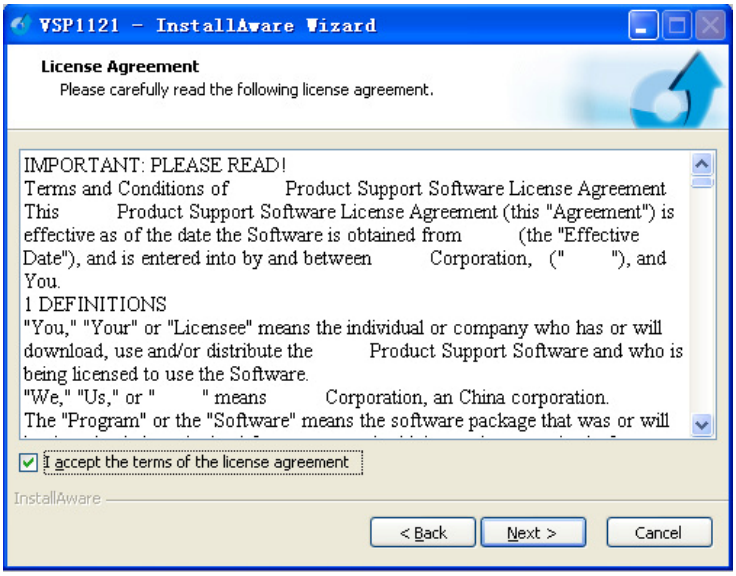
AVDSP video processor is very easy to be configured with user friendly communication software, support drag and drop operation for edit and display. Also can be customized with schedule function.

## 6.1 Install Software

Dual click AVDSP.exe to install, English version default for use,after click “select ”to next dialog.

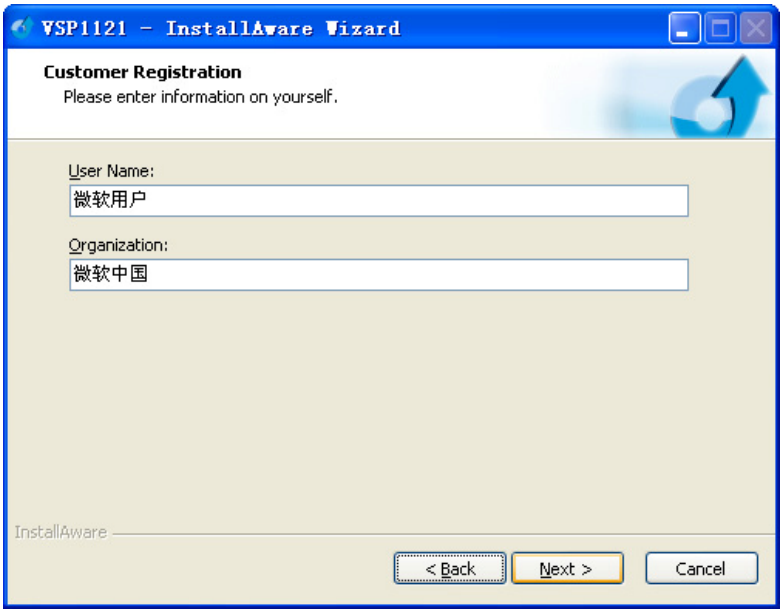

VSP1121 - InstallAware Wizard
Welcome to the InstallAware Wizard for VSP1121
The InstallAware Wizard will install VSP1121 on your computer.
WARNING: This program is protected by copyright law and international treaties.
To continue, click Next.
< Back
Next >
Cancel

And in next dialog is the user agreement of the software, click Agree to go on and Disagree to exit.

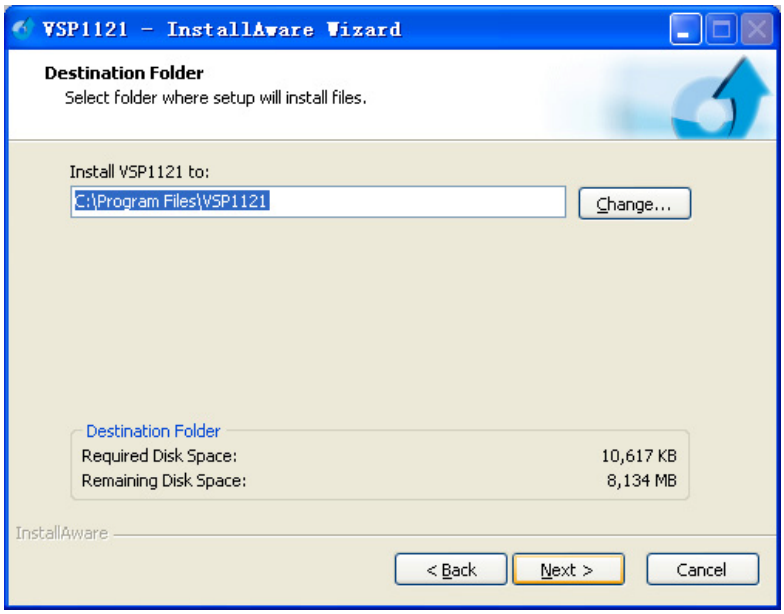

VSP1121 - InstallAware Wizard
License Agreement
Please carefully read the following license agreement.
IMPORTANT: PLEASE READ!
Terms and Conditions of Product Support Software License Agreement
This Product Support Software License Agreement (this "Agreement") is effective as of the date the Software is obtained from (the "Effective Date"), and is entered into by and between Corporation, (" "), and You.
1 DEFINITIONS
"You," "Your" or "Licensee" means the individual or company who has or will download, use and/or distribute the Product Support Software and who is being licensed to use the Software.
"We," "Us," or " " means Corporation, an China corporation.
The "Program" or the "Software" means the software package that was or will
I accept the terms of the license agreement
InstallAware
< Back
Next >
Cancel

If users agree to the agreement, user can select install directory in next

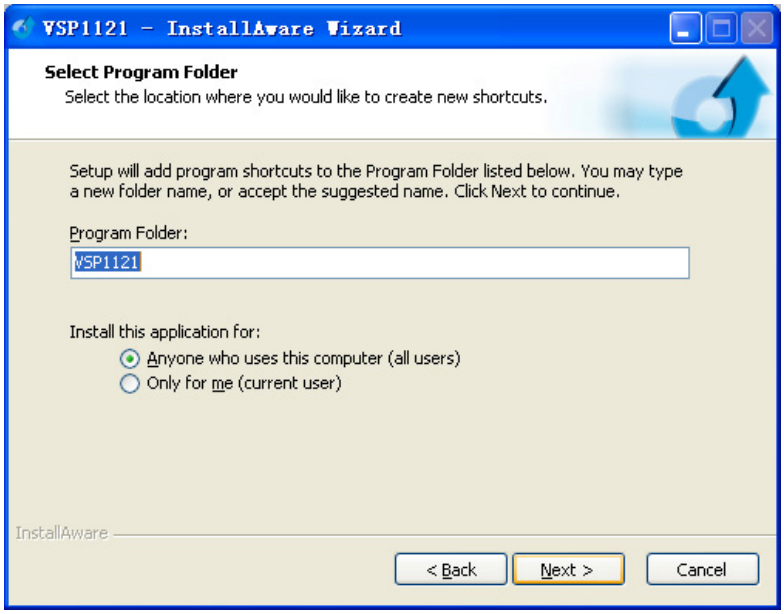
dialog, else, click next to install software to default directory “C:\Program Files”

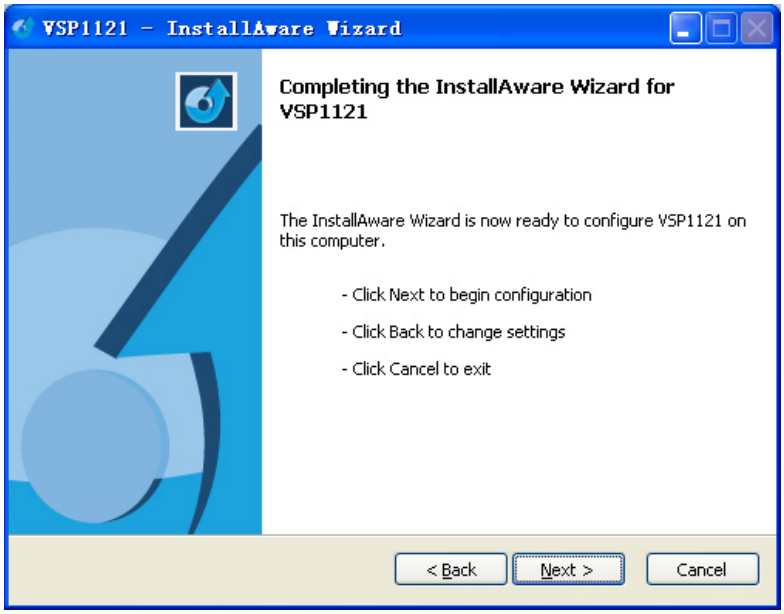


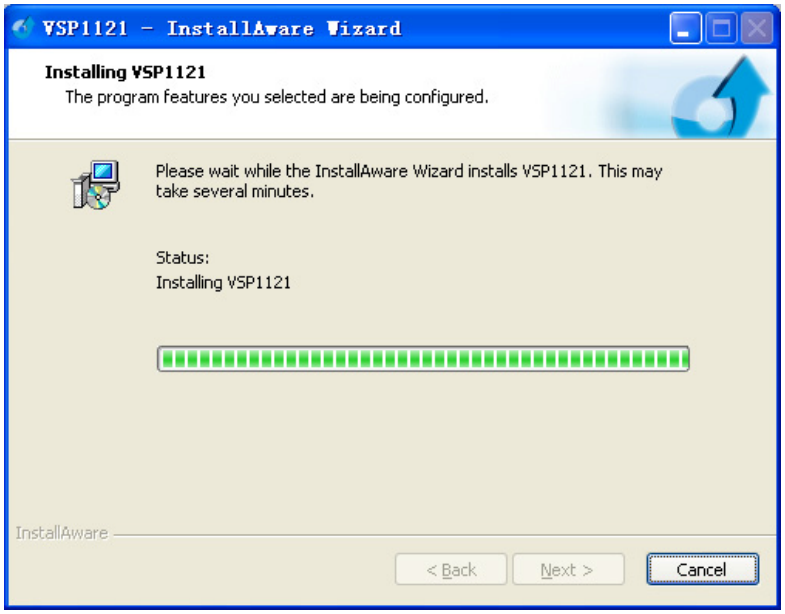

Click “next”to go on.



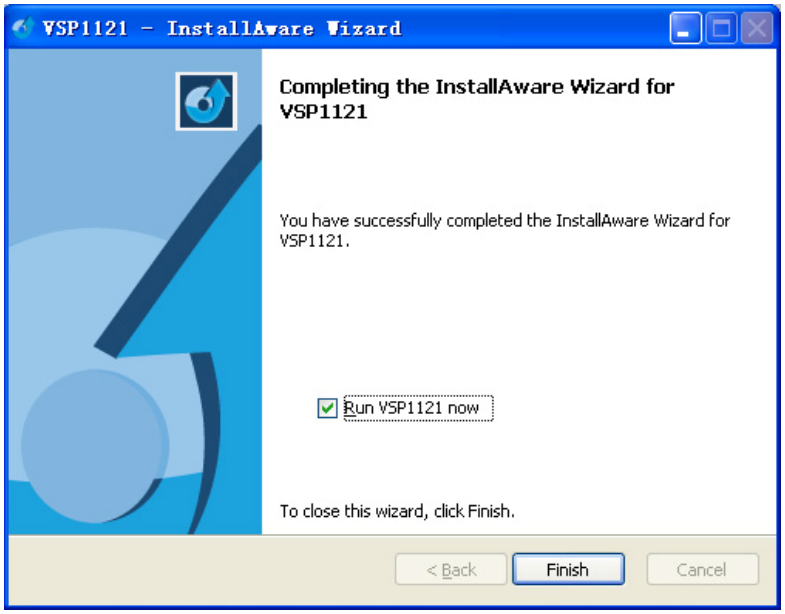

Click “next” to go on.


VSP1121 - InstallAware Wizard
Select Program Folder
Select the location where you would like to create new shortcuts.
Setup will add program shortcuts to the Program Folder listed below. You may type a new folder name, or accept the suggested name. Click Next to continue.
Program Folder:
VSP1121
Install this application for:
Anyone who uses this computer (all users)
Only for me (current user)
InstallAware
< Back
Next >
Cancel


VSP1121 - InstallAware Wizard
Completing the InstallAware Wizard for VSP1121
The InstallAware Wizard is now ready to configure VSP1121 on this computer.
- Click Next to begin configuration
- Click Back to change settings
- Click Cancel to exit
< Back
Next >
Cancel

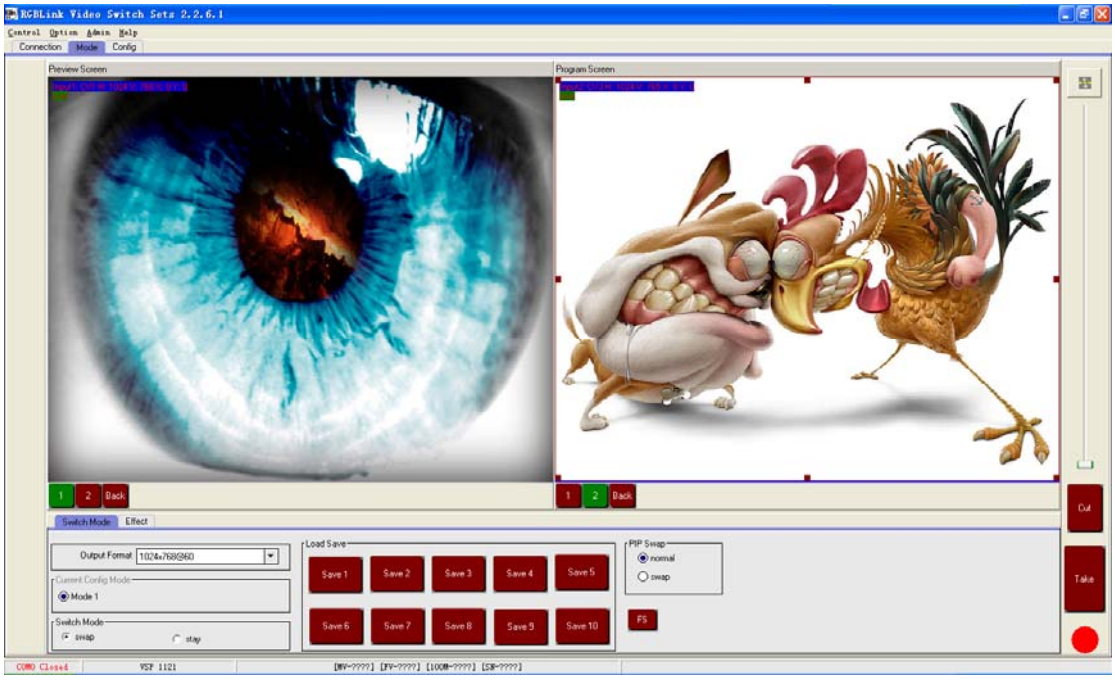

VSP1121 - InstallAware Wizard
Installing VSP1121
The program features you selected are being configured.
Please wait while the InstallAware Wizard installs VSP1121. This may take several minutes.
Status:
Installing VSP1121
InstallAware
< Back
Next >
Cancel

Click “finish” and ready to run AVDSP console.


VSP1121 - InstallAware Wizard
Completing the InstallAware Wizard for VSP1121
You have successfully completed the InstallAware Wizard for VSP1121.
Run VSP1121 now
To close this wizard, click Finish.
< Back
Finish
Cancel

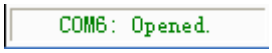
## 6.2 Run control software

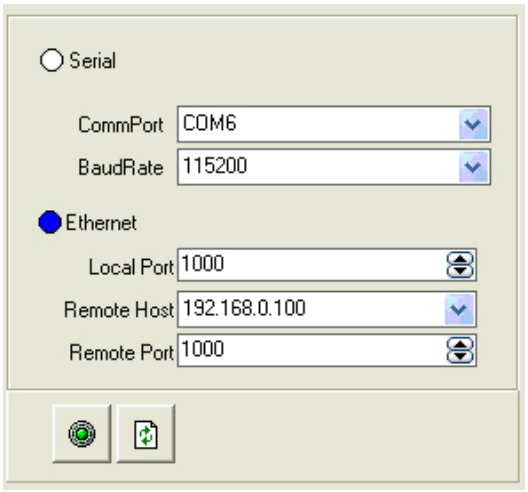
Install communication software which comes with packages of VSP 1121 device. Double click AVDSP.EXE icon from home screen to run the software VSP 1121 communication software interface as shown：

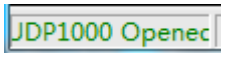



- **Set up communication**

Serial is the default COM,For the first running ,user must click the to refresh COM Port, select the right COM port,

Serial: user can make choice between existent com ports and baud rates; default Baudrate is 115200.After setting Baudrate, click the button to start communication, the button will turn into if sucessfully communicated, the prompt  will show on the left bottom.

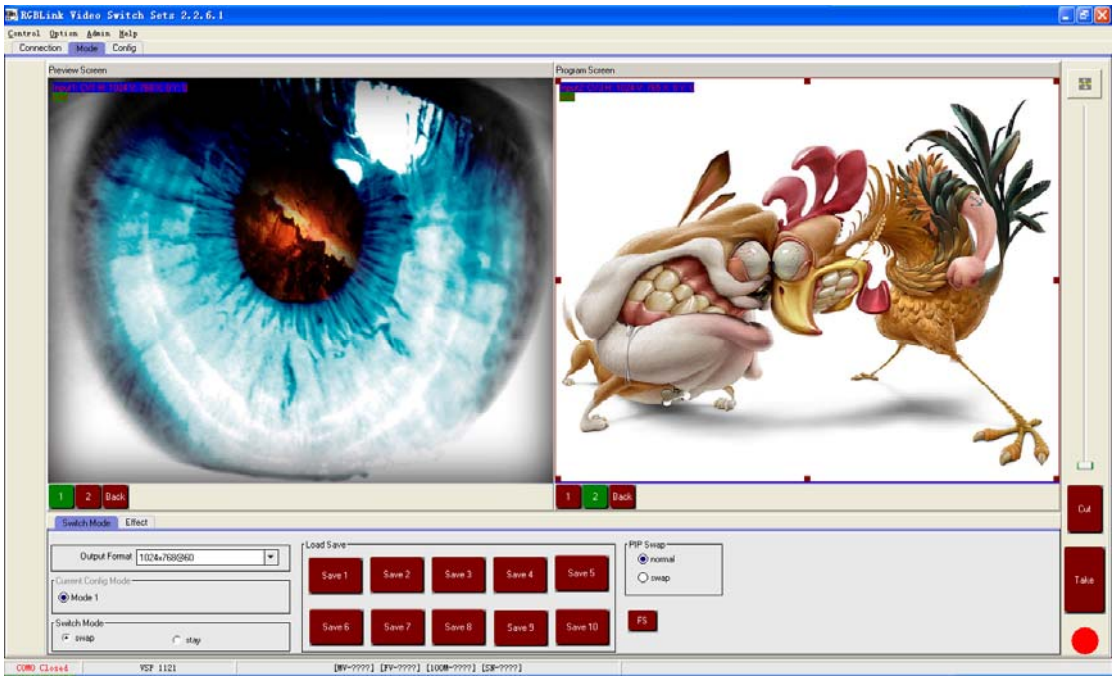


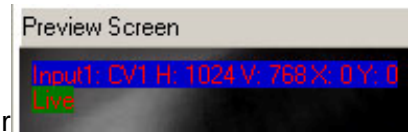

Ethernet: user can fill any number less than 1023 in Local Port. The Remote Port must be 192.168.0.100 and the Remote Port must be 1000. After setting Baudrate, click the button to start communication, the button will turn into if successfully communicated, the prompt  will show on the left bottom.



**Mode Control:**

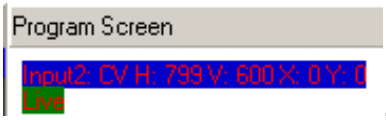
Operator Interfaces as following:

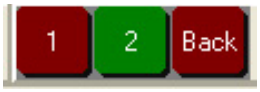


Left part is preview window ,input signal information will be shown on the top left corner 

,showing signal types and its resolution, the button part's button

corresponds with preview channels, Green-colored button indicates the button is selected. Preview image can be switched by button, in order to preview the 3 channels.

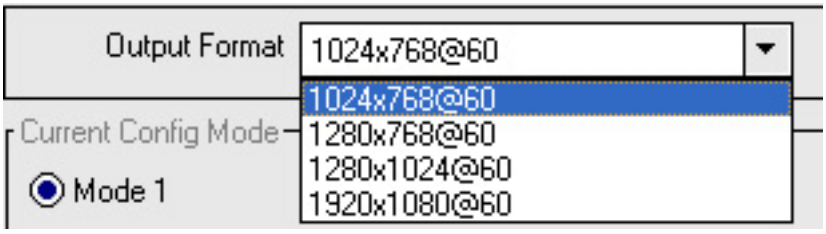
Right part is program window, input signal information will be shown on the top left corner 

, showing signal types and its resolution the button part buttons 

correspond with program channel ,program output image can be switched by button ,also can drag and drop the image to adjust the size and position of the program output signal

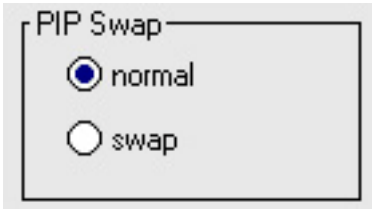
- **Output resolution toolbar：**

User can choose three output resolution by selecting from scrolling down list；




- **Switch mode：**press switch，after take button is effected ,program output image will switch with preview image , Press remain, after take button is effected, program out will follow the image of preview.

- **Recall saving configs：**click the buttons as followings to load the configs.

- **PIP Switch：** 

switch between main image and sub-image.

- **FS:**

switch between full screen and scaled screen, scaling can be realized through screen parameters setting.

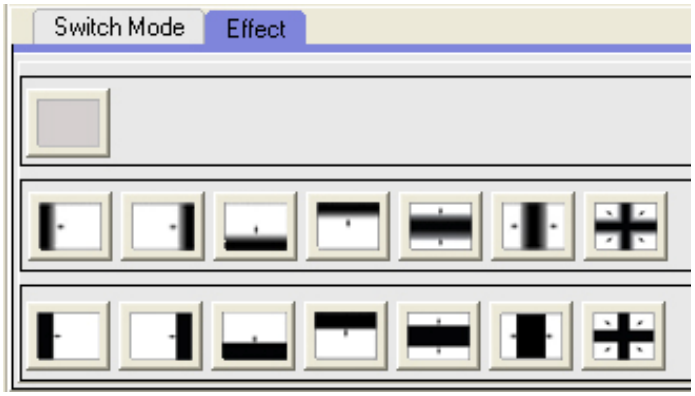
- **CUT:**

seamless CUT effect button, will switch preview image to program output;

- **Take:**

eamless transition effects button,will switch preview image to program output with special effects;

- **Effects Toolbar：**




- The device not only provides the most common fade effects(in default),but

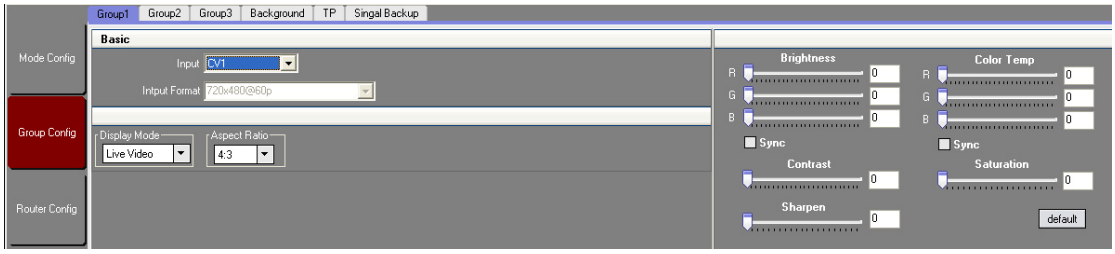
also other fourteen seamless transition effects: wipe right ,wipe left ,wipe up, wipe down, wipe center out, wipe curtain out ,wipe square out etc.

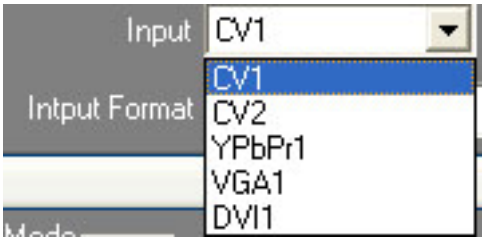
- **Fade duration**：Set the value for duration(1-30s)from progress toolbar.

- **Switch effect speed** ： set the grades(1-16 grades)for switch speed

- **Width of transparent toolbar:**： set the pixels(0-255 pixels) for transparent;

- **Input setting** ： To configure input information, Users can configure for input1, input2 separately：

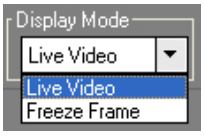



- **Input source choice** ： 

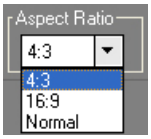
support CV,YPbPr,VGA,DVI,USB total five sources.

- **Input resolution toolbar**：

shows the resolution of current input source.

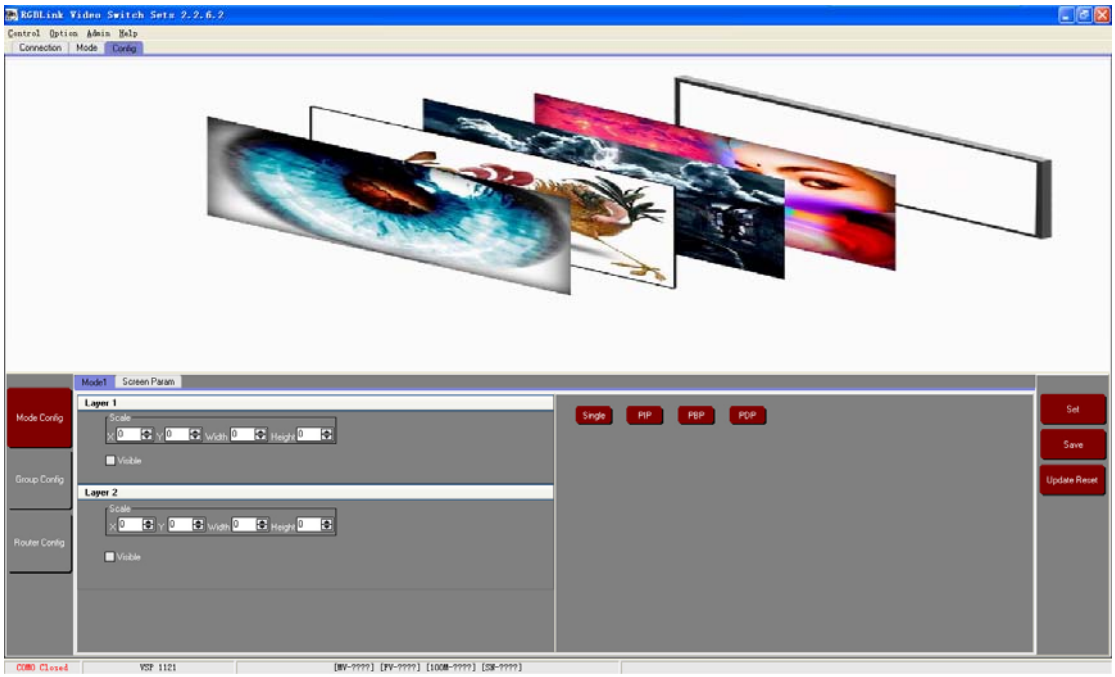
- **Display mode**： 

offers 2 different display modes,when selected “live video “,video will be played normally when selected “freeze” the display only shows the last frame.

- **Ratio：** 

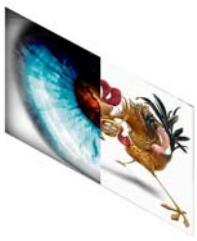
choose 4:3 or16:9 from scrolling down list.

- **Mode configuration：**

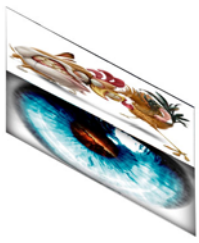


**Single picture mode**

**PIP mode：**



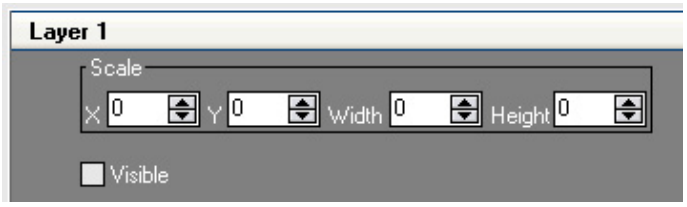
**PBP mode：**



**PDP up and down：**

- **Image input toolbar：** VSP 1121 is a three-layer processor; the data of each layer can be set from this toolbar. Data can be input at any combination, i.e., the three different channels. That is what we call “matrix functions”. Scale, zoom, crop can be realized by entering the value or rolling down the list, or drag

and drop the picture.

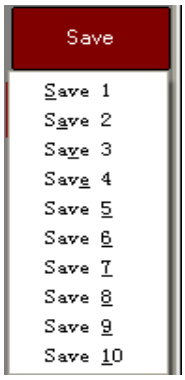


- **Set：**

click 【set】button each time to confirm the setting.

- **Save ：**

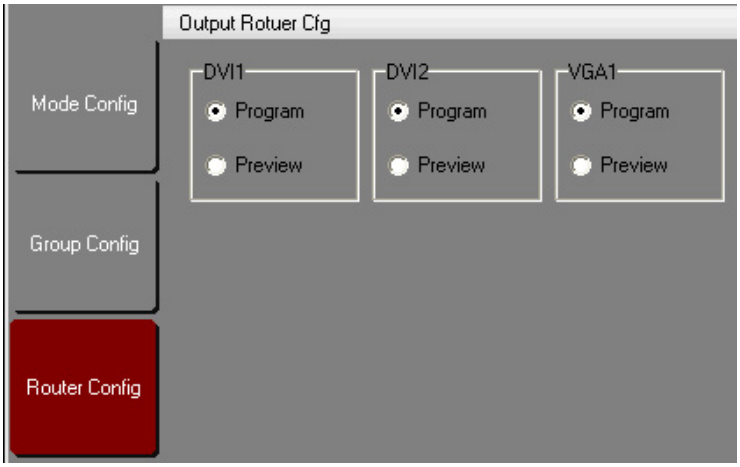
click【save】to save all the revised parameters,the scrolling list indicates the location to be saved to, if successfully saved, user can call it anytime in the future。




- **Update reset ：**

click this button to recall the factory setting。

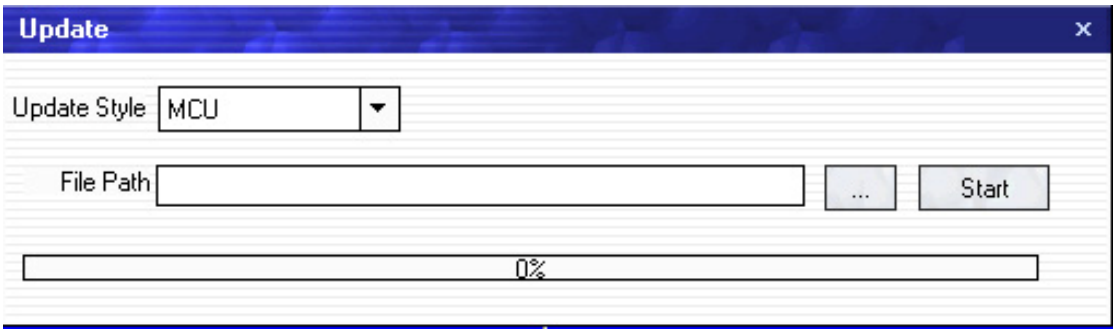
- **Output matrix**




output connector can be set as program output or preview output at will.

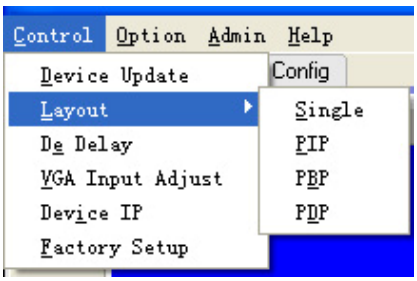
- **Control:**

- **Device update**



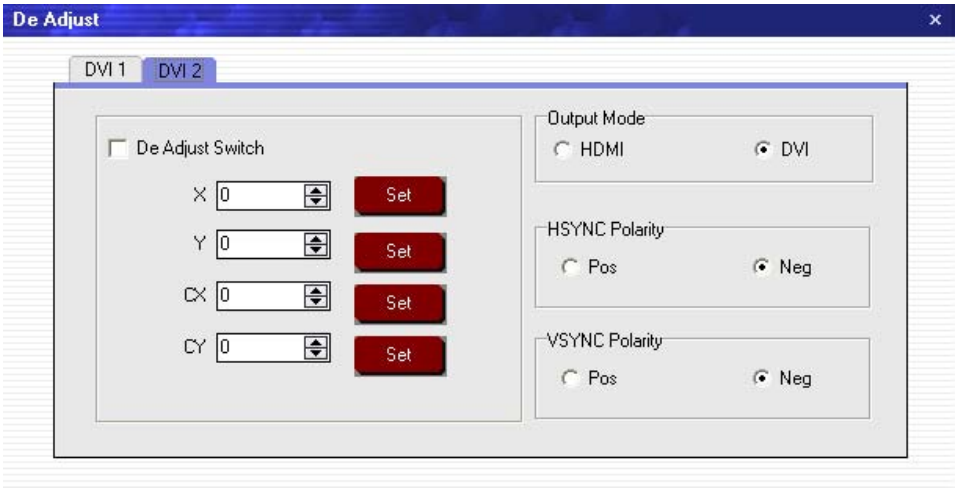

is used to update 100M communication program online.

- **Layout:**



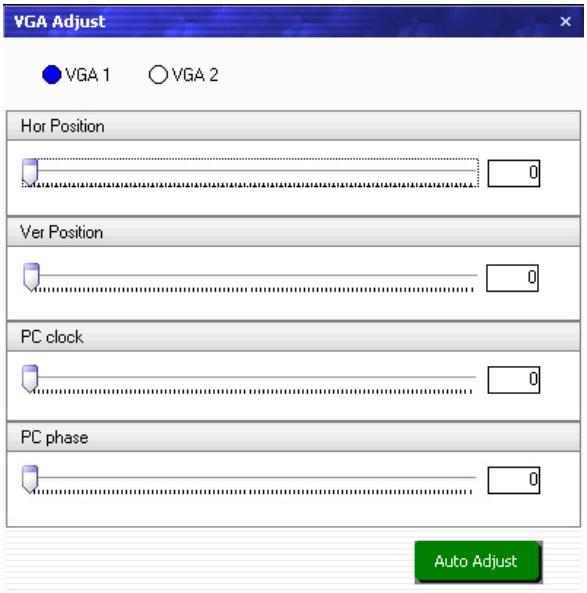
Layout setting is for Program output picture, ”Single” to show single picture，”PIP”-picture in picture，PBP-Picture by Picture，

- **DVI DE delay ：**




Set the DE of DVI 1 and DVI 2 output, Nonprofessional technician is recommended not to do this.

- **VGA input adjust ：**

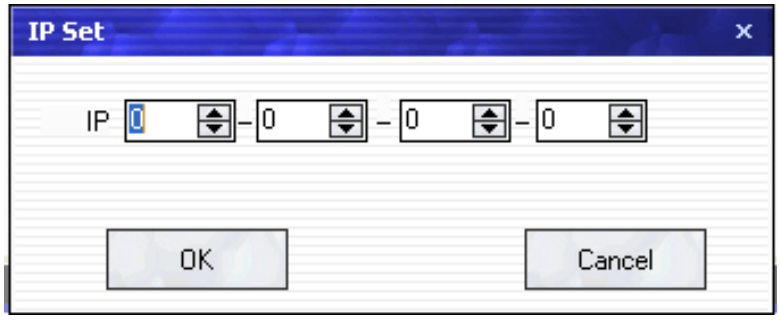



To solve the problem that the VGA picture can be shown to the full screen or problem of excursion. Nonprofessional technician is recommended not to do this.

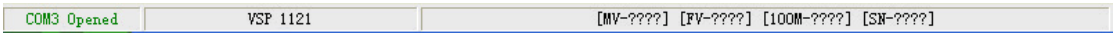
- **IP set**

Users can set equipment IP, Usually used under the condition of one Computer control or remote control several computers. It takes effect after

users change the IP by serial port, But if by the Ethernet to change IP, users need to shut down communication software, and rerun the software.




- **Factory reset** ：click “factory reset”, previously saved user-mode will be cleared。
- **Information toolbar**：the button line of the interface of control software shows the software version ,main chip version,hardware version and SN




- **Option** ：Language choices: English and Chinese.
- **Administration**：Advance , for administrator control.

| | |
|---|---|
| | ”Advance“ is for professional engineer specially, please contact with our customer service engineer to get the code if it is necessary； |

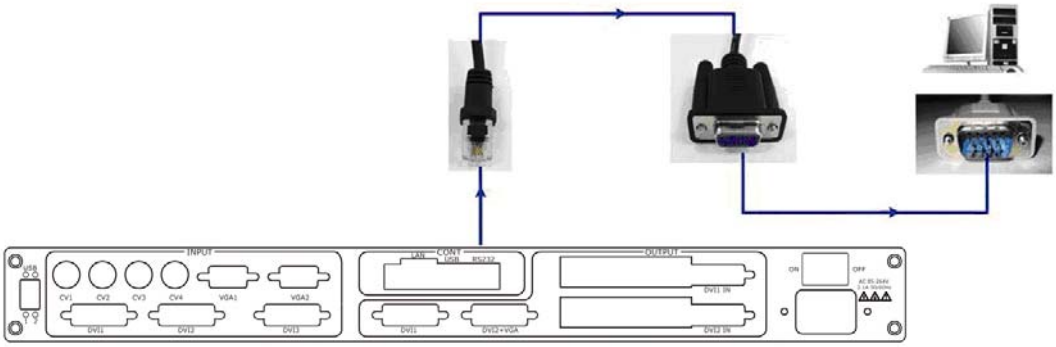
- **Help:** Display helps dialogue.
- **Version notice**： Display the software version and what is new;
- **About**：Display the software version and company information;

## 6.3 How to control processor through RS 232?

1. Firstly, install the control software in your PC;

2. Take out the RS 232 cable as following（RS-232, with 9-pin on one end, RJ 11 on the other side.）

Connect one side of the RJ11 download line to the RS232 on the video processor, and the other side to be connected to the serial port on the PC.

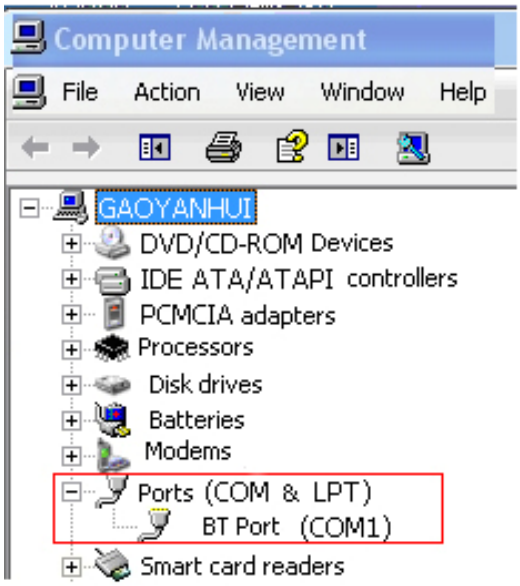


If there is no any Serial port on your PC, you will need another Serial to USB adapter. Connect one end of the RJ11 download line to the RS232 on the video processor. Connect the end of USB-side to the PC, Ensure the cable connection is good. Turn on the Video Processor VSP 729.

Right click the【My Computer】on the home screen of control PC.

Enter【Attribute】,Find【Hardware】Option,as following,Click【Device Manager】

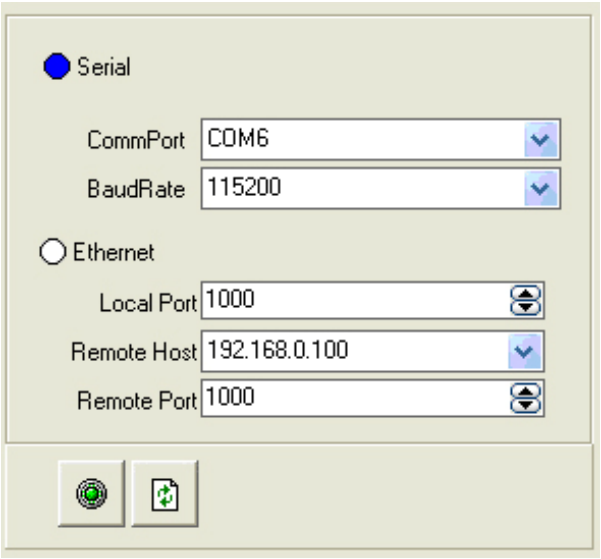
"+" on the left,check the COM number,as following, **COM1 is offered.**



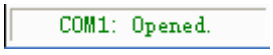

Remember the COM you are using and then run the control software,find

【Communication】 option,Click Com button, buttons will turn green. As following:

In defaut,first time user have to click button,as following:




Check and tap【Serial】,【Serial Port , for example,is **COM1** which is checked from device manager. Set VSP 628 Boud Rate to be :115200,Click【Confirm】after setting.

Click 【 open serial】,check if【COM】icon on the bottom right corner when there is the promt green 

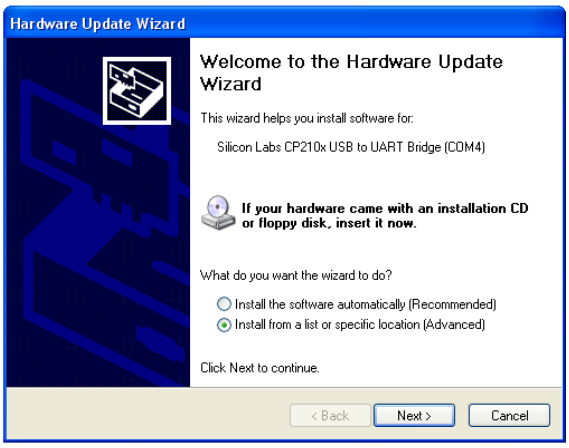
showing on the sofwware, it means the communication is ok ,and you can use the software to control the device now ;

## 6.4 How to control processor with console software by USB ?

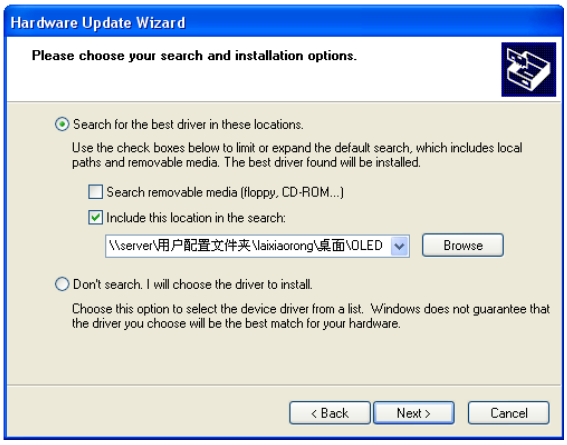
1. Install the driver

Connect the USB cable to the PC and the video processor .turn on the VSP

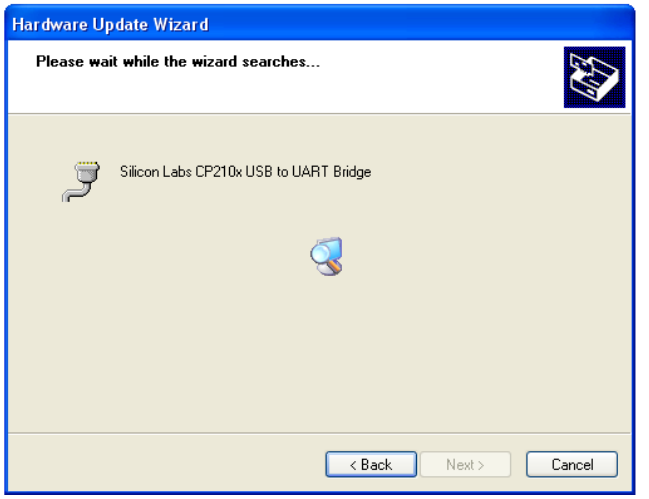
VSP 628 for the first time to use USB, the PC will remind finding the new hardware and ask to install the driver for this new driver.


Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
Silicon Labs CP210x USB to UART Bridge (COM4)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

选择从列表或指定位置安装，单击“下一步”继续：

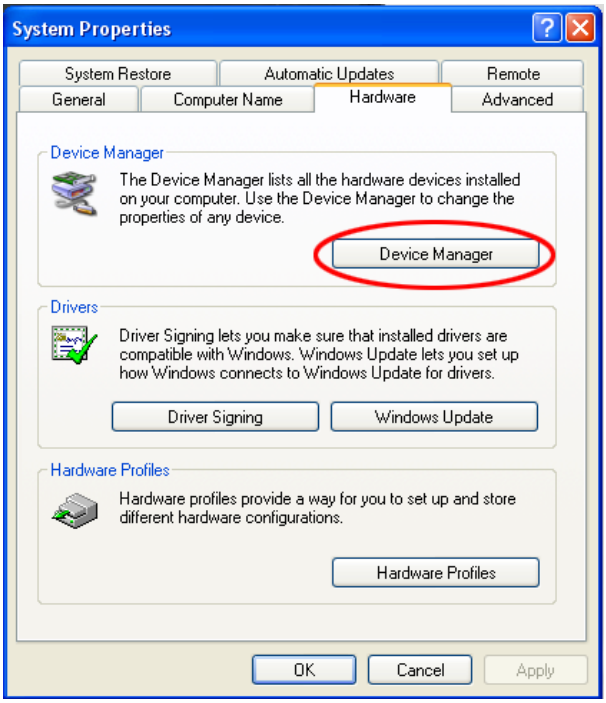

Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
\\server\用户配置文件夹\laixiaorong\桌面\OLED
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

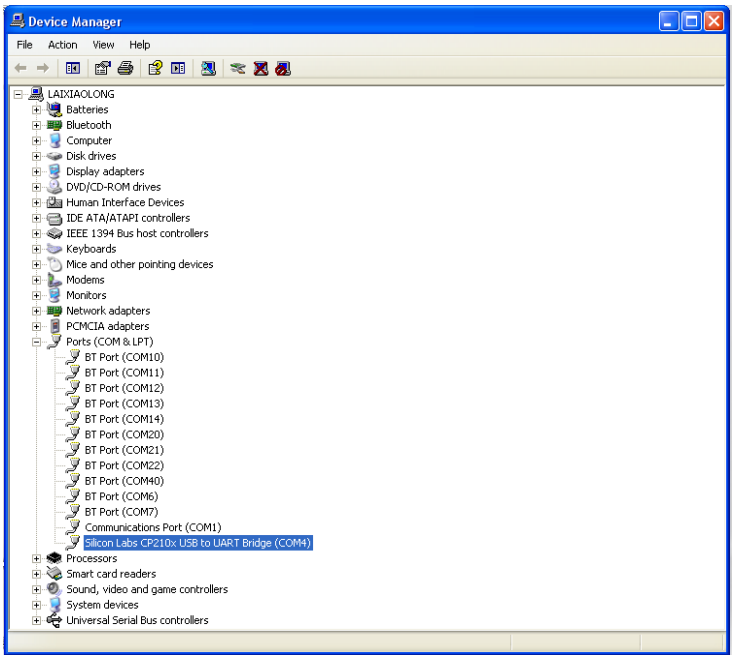
Install from the list or specified location, press “NEXT”



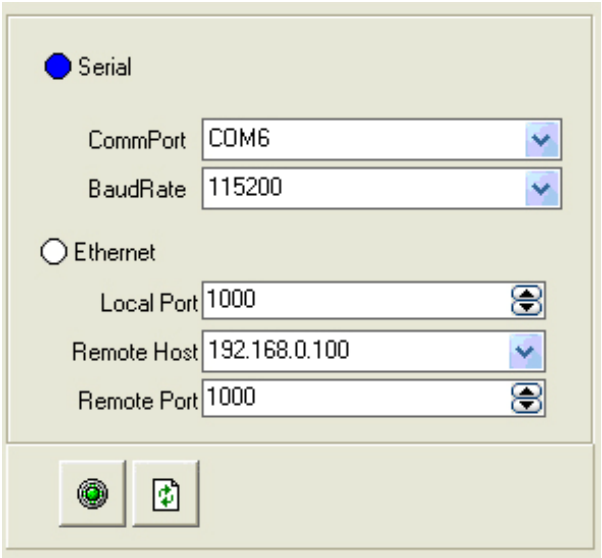
Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
MCB2300 USB VCom Port
Click Finish to close the wizard.
< Back
Finish
Cancel

When the installation finish,can go to check the installed COM port inside the device mangement ,as following picture shows:


System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Device Manager
Drivers
Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.
Driver Signing
Windows Update
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK
Cancel
Apply




2. Install the console software, and run after install, show the interface of the console as following: Select the COM as installed just now, and set the VSP 1121 Boud Rate to be :115200



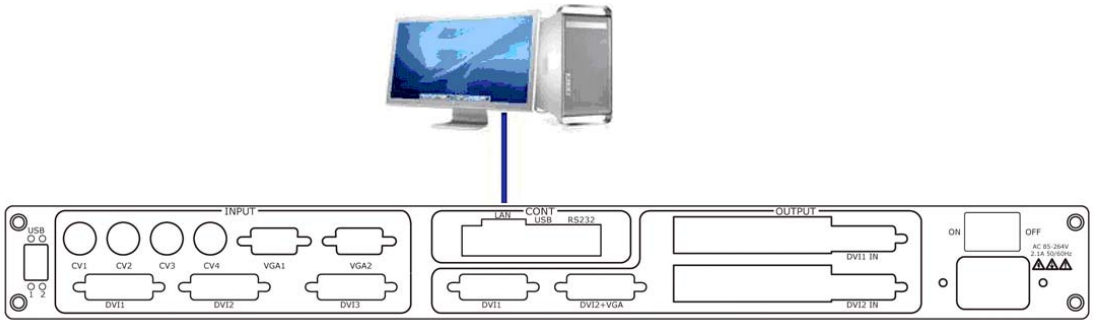

Press to start communication,when there is green point in the right down corner showing on the sofwware, it means the communication is ok ,and you can use the software to control the device now； the software operation is the same as VSP1121.

| | |
|---|---|
| | If power off during communication, should close the port by first , and plug in out of the USB and do communication again |

# 7.0 Appendix

## 7.1 Appendix VSP 1121How to update the firmware

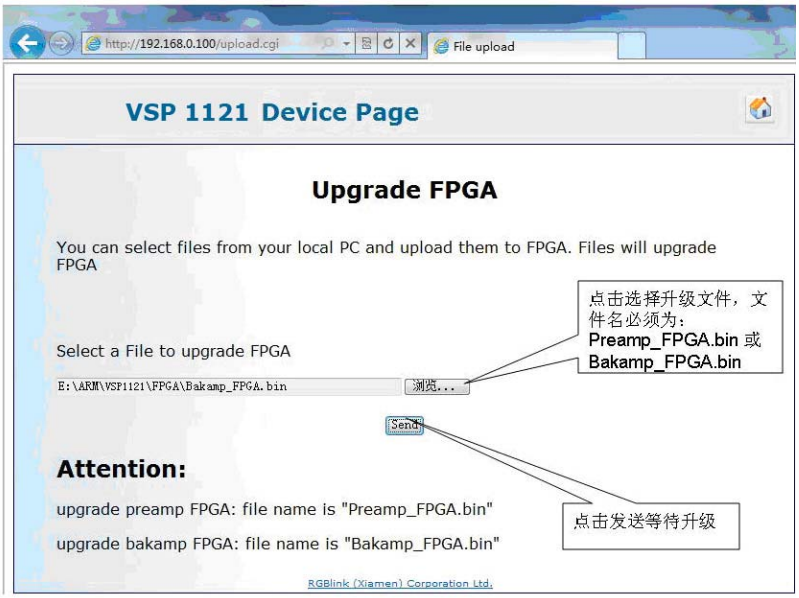
1. Firstly, connect the device with PC by network cable (Cat 5 cable).




2. Input VSP 1121 network address in address bar: 192.168.0.100, enter the user name admin and password rgblink123 in the dialog box

3. Thirdly, click on FPGA Upgrade:

4. Fourthly, click on【browse】to select upgrade, file name must be Preamp_FPGA.bin or Bakamp_FPGA.bin.




5. Click 【Send】to send and wait for upgrade

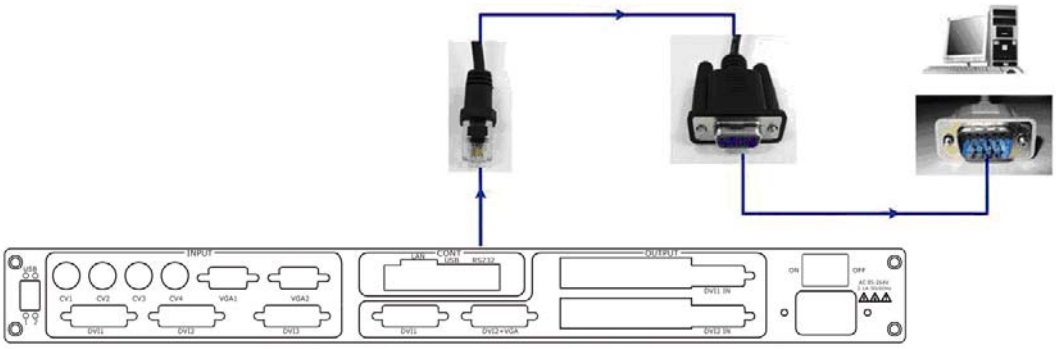
http://192.168.0.100/upload.cgi
File upload
VSP 1121 Device Page
Upgrade FPGA
You can select files from your local PC and upload them to FPGA. Files will upgrade FPGA
Select a File to upgrade FPGA
浏览...
Send
提示升级成功
Upgrade Bakamp FPGA Success!
Attention:
upgrade preamp FPGA: file name is "Preamp_FPGA.bin"
upgrade bakamp FPGA: file name is "Bakamp_FPGA.bin"
RGBlink (Xiamen) Corporation Ltd.

6. Upgrade Bakamp FPGA Successfully.

## 7.2 Appendix II Download the IP software

Turn off the power, take the two coding switch to “ON” sate. As below:

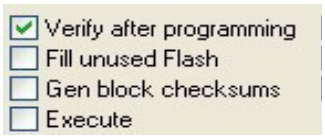
Connect one side of the RJ11 download line to the RS232 on the video processor, and the other side to be connected to the serial port on the PC.



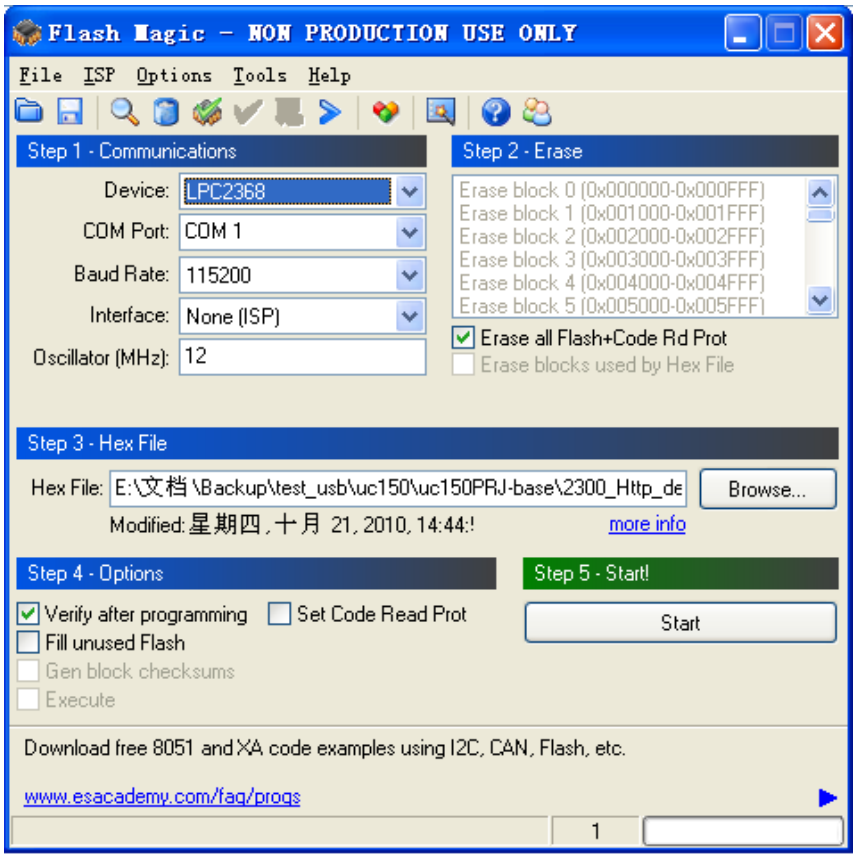
Double click Flash Magic to run Flash Magic ,setting as below:

First, users can choose the right serial port, set the baud rate to 115200, choose LPC2368,and to load the aim document (hex.document) of IP board upgrading.

Secondly, confirm the two option box by tick.




Finally, click the “Start” button.




After download, exit the program, turn off the power, tack the two coding switch back, as below, restart the equipment power, check if the equipment work normally.

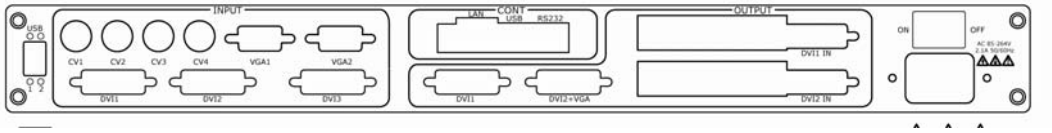
| | |
|---|---|
| | Flash Magic download website: |
| | http://www.flashmagictool.com/download.html&d=FlashMagic.exe |

# 8.0 Quick Start

## 8.1 Connection

a. **Power Connection.** Connect an AC power @ 90-264V 50/60Hz to the ACE Power connector on the rear of VSP 1121, and then to an AC outlet.

b. **Input Connection.** Connect the input sources to the corresponding connector.




## 8.2 Program buttons

How to program the inputs

For example, If suppose to define Button 1 to be DVI1 and Button 2 to be DVI2, please push Button1 or Button 2 in preview button area，then press Program （PROG） PROG Button，the LCD panel will show INPUT 1 as below：

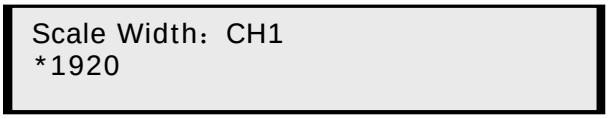
```
INPUT 1
>DVI1
```

Press 【UP】and 【DOWN】, select the input source，after pushing 【SEL】, the blinking button indicate that you have successfully programmed.

Or push Program（PROG） PROG Button, all the programmable channel buttons turn on. Follow the silk print instructional characters, select the signal you want and push the button to confirm，the blinking button indicate that you have successfully programmed.

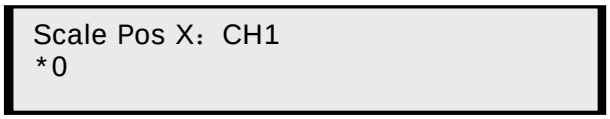
## 8.3 Adjust Image Size and Position

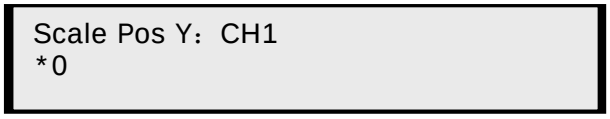
To adjust the image size, Press Button **SCALE**,LCD panel asks you to activate ,as following：




Press【SEL】 to confirm the submenu, then press【UP】 and 【down】to modify the HSIZE value, press 【SCALE】to finish modifying. Press 【UP】 and 【down】 to find the submenu Scale Height modify the Height value.

Press【SEL】 to confirm the submenu, then press【UP】 and 【down】to modify the Height value, press 【SCALE】to finish modifying. Press 【UP】 and 【down】 to apply the same operation to Pos X, Y modifying.



## 8.4 Saving configs

After configuration, press 【SAVE】to finish saving configs. A related message will be shown on the LCD panel asking you to Press Menu To Exit.

VSP 1121 offers 2 lighting Save buttons，users can select the saving destination by pressing【SAVE1】or【SAVE2】button.

| | |
|---|---|
| | Preset inputs, image size and position can be programmed and saved, so users can recall configs in the future. |

## 8.5 Recalling parameters

VSP 1121 offers 2 saving modes，i.e.: SAVE1 and SAVE2. Press the Saving Button which has stored the parameters configured, the LCD panel will show the message as following: